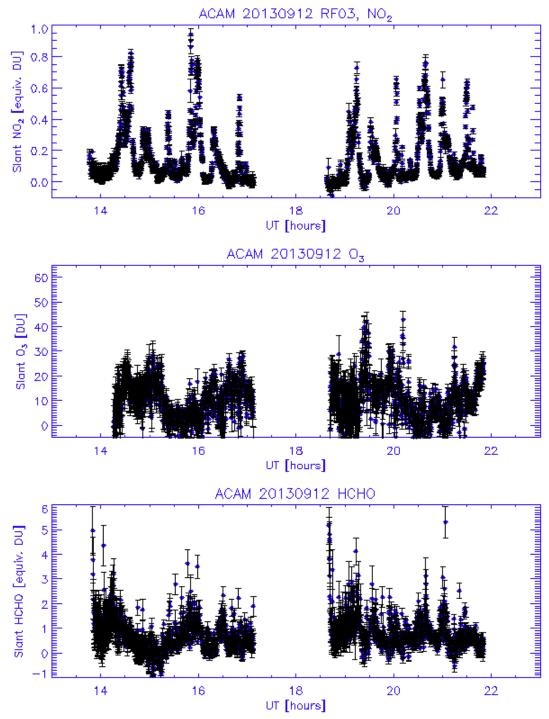


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Operations Summary RF03

The ACAM instrument operated normally during the third research flight. Cloud cover prevented retrievals in approximately 25% of pixels when binned to 1 km but enhanced values of NO_2 , CH_2O , and O_3 were observed throughout the day. The following retrievals are swath averaged [7km across track by 1.3 km meters along track].



Trace gas slant column amounts

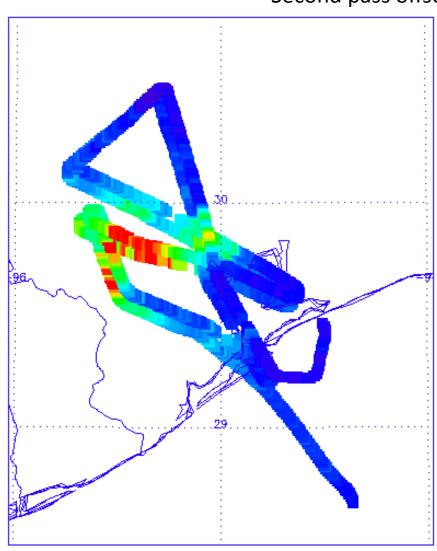
Enhanced values of NO₂ were seen in the West Houston, Channel view, and Manvel Croix areas in both the morning and afternoon legs.

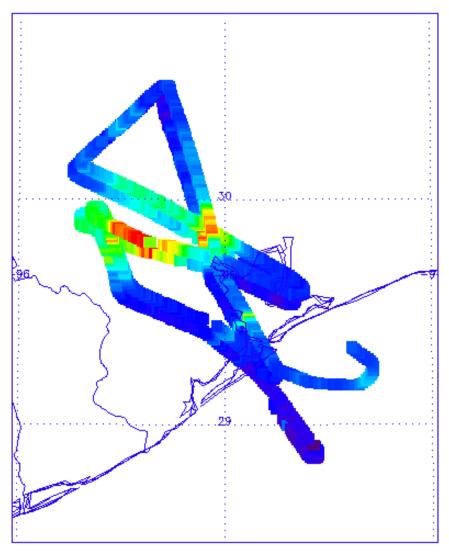
Enhanced values of both O₃ and HCHO were observed near the Channel View site throughout the day and generally west of the city on the Manvel Croix track.

NO₂ Spatial Distribution

Morning Afternoon

Peak [red] = 2.4 e16 molec./cm² Second pass offset to show track values





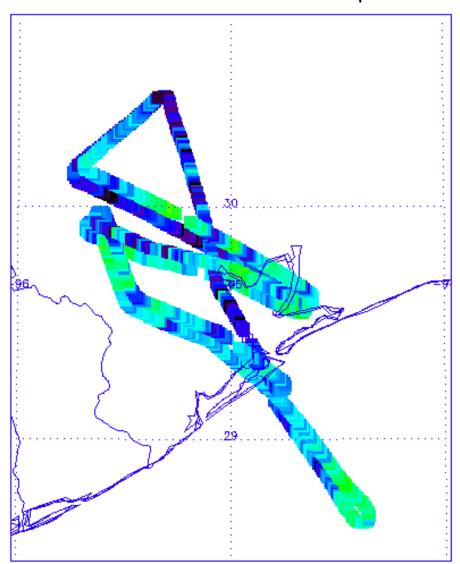
O₃ Spatial Distribution

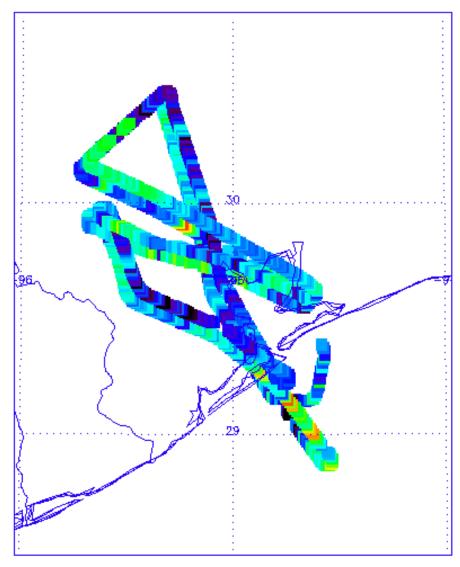
Morning

Afternoon

Peak [red] = 40 DU

Second pass offset to show track values





HCHO Spatial Distribution

Morning Afternoon

Peak [red] = 5.5e16 molec./cm^2 Second pass offset to show track values

